DECISION RECORD FY

02 STATE	02 SITE NUMBER
MA	D019716729

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Charles River Breeding Lab.	251 Ballardvale St
03 CITY	04 STATE / 05 ZIP CODE
Wilmington	MA / 01887

DRAFT PA: completed by ☐ FIT (F)-.....-... ☑ State ☐ EPA ☐ _____

REVIEWED ☑ Site Name ☑ Site ID No. ☑ Existing File BY _____

DRAFT PRIORITY ASSESSMENT/RECOMMENDATION FOR SITE INSPECTION

☐ High ☐ Medium ☐ Low ☒ None

SUMMARY OF COMMENTS ON DRAFT

a. STATE comments, dated ....., by .....

Summary _____

_____

b. SITE OWNER comments, dated ....., by .....

Summary _____

_____

c. EPA REGION 1 comments, dated 5/15/86, by R. Leahman

Summary State mtg supports NFA

_____

d. ..... comments, dated ....., by .....

Summary I agree w/ Ruth, rate as none. Steve Seran 6/17/86

No Waste – NFRAP 6-6-90 N. Smith

FINAL PA DECISION BY EPA PA COORDINATOR:

a. ☒ agree with draft.

b. ☐ Revised draft. Reason _____

_____

c. Final Priority Assessment/Recommendation for Site Inspection

☐ High ☐ Medium ☐ Low ☒ None

d. Final decision made by Susan C. Svirsky Date 6/25/86

CERCLIS INFORMATION:

a. Site Discovery Date _____ (If not already in CERCLIS)

b. PA Start Date 2/11/86 ; Compl. Date 6/25/86 & FY 86 Quarter 1 2 ⑤ 4

c. Entry Date _____ ; Entered By _____

The Commonwealth of Massachusetts

DEPARTMENT OF ENVIRONMENTAL QUALITY ENGINEERING
Division of Solid and Hazardous Waste

MEMORANDUM

TO: Madeline Snow

DATE: March 13, 1986

Thru: Helen Waldorf

FROM: Harish Panchal

SUBJECT: Charles River Breeding Laboratories - Wilmington - Draft PA

Enclosed is a draft Preliminary Assessment of Charles River Breeding Labortories in Wilmington. This report is being submitted to EPA under our Multi-Site Cooperative Agreement.

The company was placed on CERCLIS in December 1983 for reasons that are not clear. The company breeds small animals such as mice, rats, hamsters and guinea pigs at their production facility. The supply specialized cancer and other bio-medical research animals. During the laboratory process they use and generate small quantities of hazardous wastes namely xylene and alcohol. The company is licensed as a small quantity generator under EPA ID # MAD 019761729, which is also the CERCLIS ID #. They send their generated wastes for disposal through licensed transporters like SCA Chemical Services and Clean Harbors etc.

The writer believes that this site does not pose a threat to the public health or environment, because of its activities or waste that they generate. Based on this fact the writer recommends a NO-ACTION designation for this site and also recommends that this site be removed from the CERLIS if you agree.

HP/lw

cc: John Fitzgerald
Tom Clougherty

SITE LOCATION

The site is located at 251 Ballardvale St. off Rte. 125 in Wilmington. Wilmington is about 15 miles north of Boston and can be reached by taking Rte. 93 north. The site is about 1/2 mile north on Ballardvale St. off Rte. 125 northeast.

On the USGS map, this site is shown on the Wilmington Quadrangle with a latitude of 42° 35' 32" N and a longitude of 71° 09' 35" W.

BRIEF INTRODUCTION

Charles River Breeding Laboratories is one of the international companies having their branches in Canada, Italy, Germany, and the United Kingdom. In Massachusetts, they have their production facilities in New York, New Jersey, Michigan, North Carolina, and Florida. They are one of the main suppliers of specialized cancer and other bio-medical research animals. They breed mice, rats, hamsters, and guinea pigs. They also breed monkeys in their facility in Florida. This company started operating their Wilmington Facility in the early 1950's. In December 1983, this company was placed on EPA's CERCLIS, for reasons which are not clear. This company is a small quantity generator and holds a valid generator license under the same ID# MAD019716729. EPA's Data Base List already specifies a NO- ACTION for this site. The writer believes that since there is no documentation done in the past which can throw any light on the problem at this site, this preliminary assessment will help in introducing activities being carried out at the company and to propose a suitable action for this site or to confirm any action which was taken in the past.

SITE VISIT AND OBSERVATION

The writer visited the site on January 24, 1986 in order to get a clear idea about the activities of the company and to assess the nature of hazardous substances used, stored and/or produced, and the extent to which they may create any problem to the public health and environment of any.

The writer met Mr. Raymond E. Fitch, the Corporate Staff Engineer of the company, who has been associated with this facility for more than 30 years. Mr. Fitch explained in brief the company's objectives and the way various activities are handled in this facility. The writer was told that they hold a valid license to store, use, and generate a small quantity of certain chemicals, which by their characteristics are hazardous wastes. These are xylene and alcohol. To get a brief idea of the use of these chemicals in their process, the writer took a guided tour of their serological laboratory. Mr. Arthur Zoino, who is the manager of technical servies explained how xylene and alcohol are used in the process. Animal tissues are obtained and transformed to special small cassettes and preserved. All such samples are frozen at -65° C usually within 30 minutes. These tissues are then taken out from the cassettes and soaked in small cylindrical bottles containing various concentrations of xylene and alcohol. As xylene and alcohol become dilute they are reused in other parts of the process. This arrangement produces a very low quantity of treated xylene and alcohol as waste at the end of the process. The writer was shown different bottles containing 70% to 40% concentrations. Before these wastes are put in containers for disposal, they

are quite dilute. Small containers contining xylene and alcohol as hazardous wastes are disposed of and transported by licensed transporters like SCA Chemical Services and Clean Harbors etc. Charles River Breeding Labortories issues a manifest according to regulations with each shipment of waste. Copies of such manifests are enclosed in this package.

CONCLUSION AND RECOMMENDATIONS

From the information gathered during the site visit and during interviews with Mr. Raymond Fitch and Arthur Zoino of the company, the writer comes to the conclusion that there is no evidence whatsoever that activities of this company or the chemicals used during their laboratory process pose any threat to the public health or environment. Xylene and alcohol are used for treatment of the animal tissues for research purposes and during the same process, very diluted con centrations of xylene and alcohol are generated as wastes in small quantities which are disposed in accordance with EPA protocol.

Based on this conclusion the writer recommends a NO-Action for this site and proposes that this site be removed from the Data Base List of CERCLA.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE: MA | 02 SITE NUMBER: D019716729

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Charles River Breeding Laboratories Inc.	251 Ballardvale St.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Wilmington	MA	01887	Middlesex	017	

09 COORDINATES LATITUDE	LONGITUDE
42° 35' 32" N	71° 09' 35" W

10 DIRECTIONS TO SITE (Starting from nearest public road):
This site is 15 miles north of Boston. Take Rte. 125 off Rte. 93N. The site is about 1/2 mile north from Rte. 125 and on the right hand side.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
Charles River Breeding Laboratories Inc.	251 Ballardvale St.

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
	MA	01887	(617) 658-6000

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES ☐ NO DATE 1 24 86 (MONTH DAY YEAR)
BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)	03 YEARS OF OPERATION
☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN	early 1950s (BEGINNING YEAR) present (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
The company is a small quantity generator. They are using alcohol and xylene in their laboratory process of treating cellular tissues and portions of these agents are disposed of as generated waste in accordance with EPA protocol.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
N/A

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☒ D. NONE (No further action needed; complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Tom Clougherty	DEQE	617) 935-2160

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Harish Panchal	DEQE	DSHW	617) 292-5785	2 11 86 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
MA	D019716729

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS about 50/year

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☒ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

wast flammable liguid - UN 1963

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	Unknown		
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
ICC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently used CAS Numbers) N/A

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers) N/A

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State files in the Northeast Regional Office.
Interview with Mr. Raymond E. Fitch - Corporate Staff Engineer of the company.
Interview with Mr. Arthur Zoino - Manager, Technical Services of the company.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER
MA | D019761729

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

N/A

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include names of species)
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

N/A

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

N/A

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Spills/Runoff/Standing liquids/Leaking drums)
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

N/A

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

N/A

01 ☐ P. ILLEGAL UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

N/A

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS

N/A

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Very small quantities of wastes which are xylene and alcohol are disposed of in accordance with EPA protocol and transported by a licensed transporter. Each trucking of these wastes is recorded on a State prescribed Hazardous Waste manifest form. The use and generation of these wastes are a part of a laboratory process and do not appear to be harmful to public health and environment.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State files in the Northeast Regional Office.

Interview with Mr. Tom Clougherty in the Northeast Regional Office.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE: MA | 02 SITE NUMBER: D019761729

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

NATIONAL PRIORITIES LIST
CHECKLIST OF DATA REQUIREMENTS

Site Name: Charles River Breeding Laboratories Inc. Wilmington.

EPA ID# MAD019761729

DATA ELEMENT/PATHWAY	Available	Not Appropriate
Ground and Surface Water and Air		
1. Waste physical state		N/A
2. Persistence		
3. Toxicity		
4. Quantity		
Ground Water		
1. Monitoring data (if yes, skip 1a, 1b, 1c)		N/A
1a. Depth of aquifer		
1b. Net precipitation		
1c. Permeability		
2. Ground water use		
3. Distance to nearest down-gradient well		
4. Population served by wells within 3 miles		
Surface Water		
1. Monitoring data (if yes, skip 1a, 1b, 1c, 1d)		N/A
1a. Slope of terrain		
1b. Rainfall itensity		
1c. Distance to surface water		
1d. Flood potential		
2. Surface water use		
3. Critical habitats		
4. Population served		
Air		
1. Monitoring data		N/A
2. Waste reactivity		
3. Incompatibility		
4. Toxicity		
5. Distance to nearest population		
6. Population within 1 mile		
7. Critical environments		
8. Land use		

SOURCE: E325LMAN

DIVISION OF HAZARDOUS WASTE
DETAILED MANIFEST FILE DATA

DATE: 01/23/86
PAGE: 1

MANIFEST #	SHIP-DATE	WST1	TOT-1	WST2	TOT-2	WST3	TOT-3	WST4	TOT-4	WST5	TOT-5	WST6	TOT-6	COPY1	COPY2	COPY6
MA8086552	02/20/85	F003-00030G		D001-00010G										03/05/85	00/00/00	02/25/85

GENERATOR NAME: CHARLES RIVER BREEDING LABS
TRANSPORTER NAME: CLEAN HARBORS OF BRAINTREE,INC
FACILITY NAME: CLEAN HARBORS OF BRAINTREE,INC

HM1: S01 HM2: S01 HM3: X00 HM4: X00 HM5: X00 HM6: X00 TOTAL: 0 LB 40 GAL 0 YD 0 TON

****

MANIFEST #	SHIP-DATE	WST1	TOT-1	WST2	TOT-2	WST3	TOT-3	WST4	TOT-4	WST5	TOT-5	WST6	TOT-6	COPY1	COPY2	COPY6
MA0037100	08 30 84	F003-00005G		D001-00005G										00/00/00	09/17/84	00/00/00

GENERATOR NAME: CHARLES RIVER BREEDING LABS
TRANSPORTER NAME: CLEAN HARBORS OF BRAINTREE,INC
FACILITY NAME: CLEAN HARBORS OF BRAINTREE,INC

HM1: S01 HM2: S01 HM3: X00 HM4: X00 HM5: X00 HM6: X00 TOTAL: 0 LB 10 GAL 0 YD 0 TON

****

MANIFEST #	SHIP-DATE	WST1	TOT-1	WST2	TOT-2	WST3	TOT-3	WST4	TOT-4	WST5	TOT-5	WST6	TOT-6	COPY1	COPY2	COPY6
MA0037098	04 02 84	F003-00040G		D001-00010G										00/00/00	04/09/84	04/09/84

GENERATOR NAME: CHARLES RIVER BREEDING LABS
TRANSPORTER NAME: CLEAN HARBORS OF BRAINTREE,INC
FACILITY NAME: CLEAN HARBORS OF BRAINTREE,INC

HM1: T06 HM2: T06 HM3: X00 HM4: X00 HM5: X00 HM6: X00 TOTAL: 0 LB 50 GAL 0 YD 0 TON

****

MANIFEST #	SHIP-DATE	WST1	TOT-1	WST2	TOT-2	WST3	TOT-3	WST4	TOT-4	WST5	TOT-5	WST6	TOT-6	COPY1	COPY2	COPY6
MA0037097	06 03 84	M002-02235G												06/20/84	00/00/00	06/19/84

GENERATOR NAME: CHARLES RIVER BREEDING LABS
TRANSPORTER NAME: TRANSFORMER SERVICE INC.
FACILITY NAME: TRANSFORMER SERVICE INC.

HM1: S01 HM2: X00 HM3: X00 HM4: X00 HM5: X00 HM6: X00 TOTAL: 0 LB 2235 GAL 0 YD 0 TON

****

MANIFEST #	SHIP-DATE	WST1	TOT-1	WST2	TOT-2	WST3	TOT-3	WST4	TOT-4	WST5	TOT-5	WST6	TOT-6	COPY1	COPY2	COPY6
MA0036955	06 27 84	F003-00050G		D001-00050G										00/00/00	07/11/84	06/28/84

GENERATOR NAME: CHARLES RIVER BREEDING LABS
TRANSPORTER NAME: CLEAN HARBORS OF BRAINTREE,INC
FACILITY NAME: CLEAN HARBORS OF BRAINTREE,INC

HM1: S01 HM2: S01 HM3: X00 HM4: X00 HM5: X00 HM6: X00 TOTAL: 0 LB 100 GAL 0 YD 0 TON

****

JSETTS
KS

WILMINGTON QUADRANGLE
MASSACHUSETTS
7.5 MINUTE SERIES (TOPOGRAPHIC)

6769 II NE
(SOUTH GROVE)

MANCHESTER, N H 33 MI.
3 MI. TO INTERSTATE 495

LAWRENCE (P.O.) 6 MI.

71°07'30"
42°37'30"

10'

323 324 325

700 000 FEET

590 000 FEET

INTERCHANGE 30

Ballardvale

Pole Hill

TEWKSBURY

RIVER

BM 105

BM 94

ANDOVER

Gravel Pits

Lowell Junction

Wilmington Junior Camp

RATTLESNAKE HILL

OLD COUNTY RD.

SUNSET ROCK RD.

MAIN ST.

BM 99

Gravel Pits

LOWELL JUNCTION

Gravel Pits

Fosters Pond

ESSEX CO.

MIDDLESEX CO.

BM 103

Gravel Pit

WOBURN

Gravel Pits

Pumping Sta.

Martins Pond

MAINE

BALLARDVALE

Radio Towers

Wilmington Junction

LANE

INTERCHANGE 29

Gravel Pits

LOWELL

Pumping Sta.

North Reading Rehabilitation Center

OLD RAILROAD

SALEM

GRADE

Martins

BR

BM 92

Wilmington Intermediate Sch

BOSTON

BM 90

SALEM

ST

READING 7 MI.
BOSTON (INTERSTATE 95) 19 MI.

HAVERHILL 13 MI.

4721
4719
4718
4717
35'
4716

NATIONAL PRIORITIES LIST
CHECKLIST OF DATA REQUIREMENTS
Page 2

DATA ELEMENT/PATHWAY	Available	Not Appropriate
Fire and Explosion		
1. Ignition source		N/A
2. Containment		
3. Ignitability		
4. Reactivity		
5. Incompatibility		
6. Distance to population		
7. Distance to off-site building		
8. Distance to sensitive ecosystems		
9. Land use		
10. Population within 2 miles		
11. Buildings within 2 miles		
Direct Contact		
1. Evidence (if yes, skip 1a, 1b)		N/A
1a. Accessibility		
1b. Containment		
2. Toxicity		
3. Population within 1 mile		
4. Critical habitat		
5. Land use		

MANIFEST # SHIP-DATE WST1 TOT-1 WST2 TOT-2 WST3 TOT-3 WST4 TOT-4 WST5 TOT-5 WST6 TOT-6 COPY1 COPY2 COPY6

MAB086553 08 14 85 F003-00040G D001-00020G 08/22/85 08/22/85 08/16/85

GENERATOR NAME | TRANSPORTER NAME | FACILITY NAME
CHARLES RIVER BREEDING LABS | CLEAN HARBORS INC. | CLEAN HARBORS OF BRAINTREE,INC

TOTAL: 0 LB 60 GAL 0 YD 0 TON

HM1: S02 HM2: S02 HM3: X00 HM4: X00 HM5: X00 HM6: X00

****

MANIFEST # SHIP-DATE WST1 TOT-1 WST2 TOT-2 WST3 TOT-3 WST4 TOT-4 WST5 TOT-5 WST6 TOT-6 COPY1 COPY2 COPY6

MAB001084 05 15 85 F003-00035G D001-00020G M001- 00005G 05/20/85 CC/OC/00 05/16/85

GENERATOR NAME | TRANSPORTER NAME | FACILITY NAME
CHARLES RIVER BREEDING LABS | CLEAN HARBORS OF BRAINTREE,INC | CLEAN HARBORS OF BRAINTREE,INC

TOTAL: 0 LB 60 GAL 0 YD 0 TON

HM1: T06 HM2: S02 HM3: T06 HM4: X00 HM5: X00 HM6: X00

****

MANIFEST # SHIP-DATE WST1 TOT-1 WST2 TOT-2 WST3 TOT-3 WST4 TOT-4 WST5 TOT-5 WST6 TOT-6 COPY1 COPY2 COPY6

MAB000131 11 05 84 F003-00040G D001-00010G 12/26/84 00/00/00 12/06/84

GENERATOR NAME | TRANSPORTER NAME | FACILITY NAME
CHARLES RIVER BREEDING LABS | CLEAN HARBORS OF BRAINTREE,INC | CLEAN HARBORS OF BRAINTREE,INC

TOTAL: 0 LB 50 GAL 0 YD 0 TON

HM1: S01 HM2: S01 HM3: X00 HM4: X00 HM5: X00 HM6: X00

****

Charles River
Professional
Services
251 Ballardvale Street
Wilmington, MA 01887
(617) 658-6000

January 28, 1986

Mr. Harish Panchal
Dept. of Environmental
Quality Engineering
Division of Solid and
Hazardous Waste
One Winter Street
Boston, MA 02108

Dear Mr. Panchal:

As requested during your visit on Friday, 1/24/86, the enclosed procedural information should provide a clearer understanding of the routine histology work that generates both alcohol and xylene waste.

All alcohol and xylene waste is contained in appropriate vessels in accordance with EPA protocol. Additionally, proper safety and hazardous waste labels are included with required manifests designating CRL's EPA I.D. # (MA D019716729) prior to pick-up by SCA Chemical Services located in Braintree, MA.

If you should require additional information, please do not hesitate to give me a call.

Sincerely,

Arthur S. Zaino
Manager, Technical Services

ASZ/cas

Enclosure

CC: Mr. Ray Fitch

Protocol - Histology

I. OUTLINE

A. Receive cassetted formalin-fixed tissues

1. Wash thoroughly in tap H_2O.
2. Place washed cassettes in processing baskets.
3. Attach processing baskets upon Tissue Processor.
4. Set Tissue Processor timer for overnight processing.

B. Embedding

1. Place processing basket into Vacuum Infiltration for ½ hour.
2. Remove cassettes and place on Tissue Embedding Center hot plate.
3. Detach cassette lid.
4. Fill metal embedding mold half way with paraffin.
5. With aid of prewarmed forceps, gently lay cut surface down of fixed specimen in paraffinized embedding mold.
6. Place specimen containing secured cassette base on top of embedding mold on cold surface of Embedding Center.
7. Allow paraffin block to solidify.
8. Gently ease away mold from cold specimen block and trim edges of block with dull razor blade (assuring proper fit into Microtome Cassette Clamp).

C. Sectioning

1. Secure prelabeled, cold paraffin block onto A/O Rotary Microtome Clamp.

2. Section paraffin block by rotation of Microtome handle clockwise to obtain ribbon-like sections of tissue which are 4-5 microns in thickness.
3. Remove ribbon sections from 125 mm Microtome Knife with forceps to awaiting 52°C Water Bath.
4. Obtain a pretreated, prelabeled frosted-end slide from 50°C Slide Warmer.
5. Ease treated slide under floating paraffinized ribbon and draw slide up and out of Water Bath.
6. Place slide with its specimen back onto Slide Warmer.
7. Remove all cut slides from Slide Warmer to awaiting 60°C Lipshaw Electric Laboratory Slide Dryer for overnight drying.

D. Staining

1. Remove dried slides and place in 25 slide capacity staining holder.
2. Follow protocol for Routine H&E staining procedure.

E. Cover-glassing

1. Place holder of stained slides in last xylene container under Fume-X-Peller hood.
2. Remove one slide at a time onto a gauze sponge and dispense a droplet of Permount^{r} (mounting medium) onto xylene saturated slide.
3. Secure a 24 x 50 mm cover glass atop stained slide.
4. Gently wipe excess Permount^{r} from edges of cover glass.
5. Allow to completely dry overnight.
6. Submit next working day to pathologist with proper case report papers.

F. Storage

1. Paraffin Blocks--put in yearly numeral order in Cassette Storage Cabinets.

2. Cover-glassed, Stained Slides--put in yearly numeral order in S/P Slide Drawers

G. Tissue processor setup

1. Daily setup (run <u>two</u> baskets per machine)--Monday-Thursday evenings:

   a. Start with fresh solutions each week.

   b. Wash already formalin-fixed cassettes in H_2O for 1 hour.

   c. Start with timer disk on "0" with 1½ hour interval stops per step.

   d. #1 70% ethyl alcohol

   e. #2 70% ethyl alcohol

   f. #3 80% ethyl alcohol

   g. #4 80% ethyl alcohol

   h. #5 Abs ethyl alcohol

   i. #6 Abs ethyl alcohol

   j. #7 Abs ethyl alcohol

   k. #8 ½ abs; 1 xylene

   l. #9 xylene

   m. #10 xylene

   n. #11 paraffin bath

   o. #12 paraffin bath

2. Weekend setup (run one basket per machine)--Friday night on timed delay for 48 hours:

   a. Start with timer disk on "0" with 1½ hour interval stops.

b. #1 10% buffered formalin

c. #2 Tap H_2O

d. #3 70% ethyl alcohol

e. #4 80% ethyl alcohol

f. #5 Abs ethyl alcohol

g. #6 Abs ethyl alcohol

h. #7 Abs ethyl alcohol

i. #8 ½ abs; ½ xylene

j. #9 xylene

k. #10 xylene

l. #11 paraffin bath

m. #12 paraffin bath

H. Routine staining procedure (H&E)

1. Xylene -- 5 minutes
2. Xylene -- 5 minutes
3. Xylene -- 5 minutes
4. Xylene -- 5 minutes
5. Abs ethyl alcohol -- 10 dips
6. Abs -- 10 dips
7. Abs -- 10 dips
8. Abs -- 10 dips
9. 80% -- 10 dips or until solution sheets evenly off slides
10. 50% -- 10 dips
11. Distilled H_2O -- 1-2 minutes until solution sheets off slides
12. Harris Hematoxylin -- 5 minutes

    Tap H_2O -- wash in sink
13. 1% acid alcohol -- 2 dips until slides turn brick red in color

Tap H_2O -- wash in sink

14. Lithium carbonate (saturated solution) -- 10 dips until deep blue in color

    Tap H_2O -- wash in sink

15. Eosin Y -- 3 minutes

    Tap H_2O -- wash in sink

16. 95% ethyl alcohol -- 10 dips
17. Abs -- 10 dips
18. Abs -- 10 dips
19. Abs -- 10 dips
20. Abs -- 3 minutes
21. ½ abs; xylene -- 2 minutes
22. Xylene -- 2 minutes
23. Xylene -- 1 minute
24. Xylene -- 1 minute
25. Xylene -- 1 minute
26. Xylene -- 1 minute
27. Xylene -- leave until ready to cover glass

Note: Each staining container holds 250 cc. Change all H_2O containers after each rack of slides has been stained.

EUGENE R. EISENBERG
LOUIS REXROAT ANDERSON
JAMES G. JACOBS
PAUL D. GUERTIN
CONSULTANT
MARK LINENTHAL

PAUL E. BOWKER
RICHARD E. CAVANAGH
IRA L. GRISHAVER
MELVIN J. LOCKE
HAROLD M. LURIE
ALVAN E. SHUMAN

LEA
LINENTHAL EISENBERG ANDERSON INC.
ENGINEERS
16 LINCOLN STREET · BOSTON · MASSACHUSETTS 02111
617 / 426-6300

November 16, 1972

Mr. Kenneth A. Tarbell
Regional Sanitary Engineer
Northeast Regional Health Office
Tewksbury Hospital
Tewksbury, Massachusetts 01876

Re: Charles River Breeding Laboratories
Project No. 72158

Dear Mr. Tarbell:

In accordance with your directive to the Charles River Breeding Laboratories, dated September 22, 1972, we have determined the actual liquid capacity of the existing septic tanks at the subject site. These tanks and their respective capacities are shown on the accompanying plan titled "Existing Sewage Disposal Facilities".

In addition, we have, this date, investigated Buildings Eight and Nine to determine the character of the wastes currently being discharged to the 10,000 gallons per day Smith & Loveless sewage treatment plant.

Briefly, our investigation brought to light the following:

1. Each building is divided into three sections.

2. Building Eight houses rats in one section and mice in another. The third section is presently empty, but will house mice as of December 15, 1972.

3. All mice waste from Building Eight, including bedding, manure and excess food, is transferred to a storage silo via an enclosed vacuum system.

(continued)

4. The rat waste from Building Eight is entirely hand-bagged for ultimate disposal with the mice waste.

5. Building Nine houses rabbits, mice, and guinea pigs.

6. All rabbit wastes from Building Nine are transferred to the storage silo via the enclosed vacuum system.

7. All mice and guinea pig wastes from Building Nine are hand-bagged for ultimate disposal with the silo stored wastes.

8. All hand-bagged and vacuum collected bedding, manure and excess food is collected by Mr. Frank Canales, who disposes of it on his properties in Tewksbury and New Hampshire.

9. The only wastes being discharged to the sewage treatment plant via the sanitary sewer are the domestic wastes eminating from toilets, sinks, and showers, plus occasional cage washwater.

We trust that the information contained in this correspondence demonstrates the good faith of our client in proceeding toward design and construction of the facilities approved by your letter of September 22, 1972.

Very truly yours,

LINENTHAL EISENBERG ANDERSON INC.

William J. Richmond, P.E.
Chief Sanitary Engineer

WJR:rpb
Enclosure

cc: Mr. Walter Dolan

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL QUALITY ENGINEERING
DIVISION OF HAZARDOUS WASTE
One Winter Street
Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No: MAD019716729 | Manifest Document No: | 2. Page 1 of | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address:
CHARLES RIVER LABORATORIES, INC.
251 BALLARDVALE ST., WILMINGTON, MA 01887

4. Generator's Phone: 617 658-6000

A. State Manifest Document Number: MA B001084

B. State Gen. ID: Same

5. Transporter 1 Company Name: SCA CHEMICAL SERVICES

6. US EPA ID Number: MAD053452637

C. State Trans. ID: MAAC1276

7. Transporter 2 Company Name:

8. US EPA ID Number:

D. Transporter's Phone: 617 849-1800

E. State Trans. ID:

9. Designated Facility Name and Site Address:
SCA CHEMICAL SERVICES
385 QUINCY AVE., BRAINTREE, MA

10. US EPA ID Number: MAD053452637

F. Transporter's Phone:

G. State Facility's ID: Not Required

H. Facility's Phone: 617 849 1800

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Flammable Liquid - UN1963 Flammable Liquid	7	DM	35	G	F003
b. Waste Flammable Liquid - UN1993 Flammable Liquid	4	DM	20	G	D001
c. WasteØ Oil - NA1270	1	DM	5	G	M001
d.					

J. Additional Descriptions for Materials Listed Above (Include printed/typed state and hazard code.)
a. Xylene
b. Alcohol
c. Lubricating Oil
d.

K. Handling Codes for Wastes Listed Above
a. ~~T06~~ T06
b. ~~S02~~ S02
c. ~~S02~~ S02
d.

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations, and all applicable State laws/regulations.

Printed/Typed Name	Signature	Date (Month Day Year)
MICHAEL L. MORPHEW	Michael L. Morphew	05 11 85

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Richard Viens	Richard Viens	05 11 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Theodore Hayden	Theodore Hayden	05 11 85

Form Approved OMB No. 2050-0404 Expires 7-31-87
EPA Form 8700-22 (3-84)

GENERATOR
TRANSPORTER
FACILITY

MA B001084 COPY>3: GENERATOR-MAILED BY TSDF

COPY>3: GENERATOR-MAILED BY TSDF

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL QUALITY ENGINEERING
DIVISION OF HAZARDOUS WASTE
One Winter Street
Boston, Massachusetts 02108

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: M A D 0 1 9 7 1 6 7 2 9

3. Generator's Name and Mailing Address:
CHARLES RIVER LABORATORIES, INC.
251 BALLARDVALE ST., WILMINGTON, MA 01887

4. Generator's Phone: 617 658-6000

A. State Manifest Document Number: MA B086553
B. State Generator's ID: SAME

5. Transporter 1 Company Name: ~~SCA CHEMICAL SERVICES~~ Clean Harbors Inc
6. US EPA ID Number: M A D 0 ~~5 3 4 5 2 6 3 7~~ 53322250
C. State Transporter's ID: M A A C 1 2 7 6
D. Transporter's Phone: 617 ~~849-1800~~ 575-5711

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
Clean Harbors of Braintree, MA
~~SCA CHEMICAL SERVICES~~
385 QUINCY AVE., BRAINTREE, MA
10. US EPA ID Number: M A D 0 5 3 4 5 2 6 3 7
G. State Facility's ID: Not Required
H. Facility's Phone: 617 849-1800

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Flammable Liquid - UN1963 Flammable Liquid	8	DM	40	G	F003
b. Waste Flammable Liquid - UN1993 Flammable Liquid	4	DM	20	G	D001
c.					
d.					

J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.)
a. Xylene
b. Alcohol
c.
d.

K. Handling Codes for Wastes Listed Above
a. S 1 0 1 2
b. S 1 0 1 2
c.
d.

15. Special Handling Instructions and Additional Information

CHWO # 44145

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations, and all applicable State laws/regulations.

Printed/Typed Name	Signature	Date Month/Day/Year
JAMES T. HASTINGS	James T Hastings	08/14/85

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month/Day/Year
~~JAMES T HASTINGS~~	~~James T. Hastings~~	

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month/Day/Year
Gerald S. Reid	Gerald S Reid	08/14/85

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date Month/Day/Year
Kevin P. Connors	Kevin P. Connors	08/14/85

Form Approved OMB No. 2000-0404. Expires 7-31-86
EPA Form 8700-22 (3-84)

COPY>3: GENERATOR-MAILED BY TSDF

MA B086553 COPY>3: GENERATOR-MAILED BY TSDF

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL QUALITY ENGINEERING
DIVISION OF HAZARDOUS WASTE
One Winter Street
Boston, Massachusetts 02108

MA B086556 COPY>3: GENERATOR-MAILED BY TSDF

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No.: MAD019716729 | Manifest Doc. No.: 00001 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Charles River Laboratories, Inc
251 Ballardvale Street Wilmington, Ma 01887
4. Generator's Phone: 617 658-6000

A. State Manifest Document Number: MA B086556
B. State Generator ID: same

5. Transporter 1 Company Name: Clean Harbors ~~of Braintree~~ Inc.
6. US EPA ID Number: MAD039322250
C. State Transporter ID: MAAC1276
D. Transporter's Phone: 617 585-5111

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter ID
F. Transporter's Phone

9. Designated Facility Name and Site Address: Clean Harbors of Braintree Inc. 385 Quincy Ave., Braintree, Ma 02184
10. US EPA ID Number: MAD053452637
G. State Facility's ID: Not Required
H. Facility's Phone: 617 849-1800

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
GENERATOR a. WasteXylene - Flammable Liquid UN1993	7	DM	35	G	F003
b. Waste Alcohol - Flammable Liquid UN1993	1	DM	5	G	D001
c.					
d.					

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code)
a. Xylene
b. Alcohol

K. Handling Codes for Wastes Listed Above
a. S02
b. S02

15. Special Handling Instructions and Additional Information

"Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment."

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations, and all applicable State laws/regulations.

Printed/Typed Name	Signature	Date: Month	Day	Year
Raymond E. Fitch	Raymond E. Fitch	1	15	86

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date: Month	Day	Year
JAMES L. TISDALE	James L. Tisdale	01	15	86

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date: Month	Day	Year

FACILITY

19. Discrepancy Indication Space
1104 A-27
F-97

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date: Month	Day	Year
Mark J. Keller		01	15	86

Form Approved OMB No. 2000-0404. Expires 7-31-86
EPA Form 8700-22 (3-84)

COPY>3: GENERATOR-MAILED BY TSDF

40M-10-74-109109

JUL 25 1975

THE COMMONWEALTH OF MASSACHUSETTS
WATER RESOURCES COMMISSION

LEVERETT SALTONSTALL BUILDING, GOVERNMENT CENTER
100 CAMBRIDGE STREET, BOSTON 02202

OFFICE OF THE DIRECTOR
DIVISION OF WATER
POLLUTION CONTROL

July 23, 1975

William H. Keough
Charles River Breeding Laboratories
251 Ballardvale Street
Wilmington, Massachusetts 01887

Re: Wilmington
Charles River Breeding Laboratories
Tax Certification

Dear Mr. Keough:

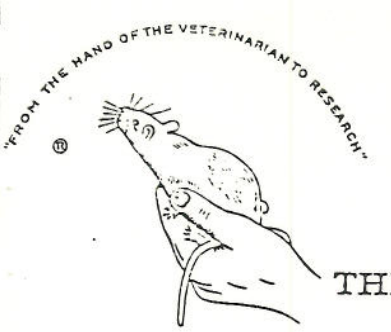
As clarified by Mr. Wiesen's letter of July 14, 1975, this Division acknowledges that the treatment facilities for which certification has been requested do, in fact, treat "industrial wastes" as the term is defined in applicable legislation.

Accordingly, this office will issue its certification as soon as documentation is obtained from the Division of Environmental Health that the system has been constructed in accordance with the approved plans. We have requested this information from the Regional Health Office in Tewksbury.

Very truly yours,

Thomas C. McMahon
Director

TCM/GG/jl
cc: Kenneth Tarbell, Regional Engineer, N. E. Regional Office, Division of Environmental Health, Tewksbury Hospital, Tewksbury, Massachusetts
Jeffrey M. Wiesen, Mintz, Levin, Cohn, Glovsky, & Popeo, One Center Plaza, Boston, Massachusetts



CORPORATE DIVISIONS:
Charles River France, S.A.-France
Canadian Breeding Laboratories, Ltd.-Canada
Lakeview Hamster Colony-U.S.A.
Charles River Mouse Farms, Inc.-U.S.A.

THE CHARLES RIVER BREEDING LABORATORIES

INCORPORATED

HENRY L. FOSTER, D.V.M., President

WILMINGTON, MASS. 01887

Area Code 617 · Tel. 658-6000
Cable: CHARIVER-Wilmington

February 17, 1972

Mr. C. Maynard Austin, Town Manager
Town of Andover
Town Hall
Andover, Massachusetts

Dear Mr. Austin:

This correspondence is essentially a petition to the Town of Andover to allow The Charles River Breeding Laboratories, Inc., the privilege of connecting to an Andover trunk line sewer where it enters the Gillette Company property.

This petition is being made following a year's research and investigation by our staff and consulting engineers into all possibilities for sewerage disposal at our Ballardvale Street site in the Town of Wilmington. In each instance technical difficulties are encountered particularly with regard to the ability of the soil, sub soil and terrain in general to accept the volume of clarified effluent anticipated.

The Massachusetts Department of Public Health has enjoined Charles River from installing additional septic systems primarily due to those soil limitations. In turn this fact has worked additional hardship in that Charles River cannot erect additional facilities needed to meet increasing demands for basic Cancer Research laboratory animals.

In seeking a complete and final solution to this most serious problem, access to municipal sewerage was considered. The nearest such access in the Town of Wilmington is approximately 6 miles distant. The only other municipal access is the Town of Andover's trunk line servicing the Gillette Company complex, approximately 7500 feet distant. Alternate routes to this point were compared. The enclosed maps indicate the results of that comparison.

Basically we propose to commence at the Charles River Ballardvale Street site with a force main placed on our property, across the Parks property on the Easterly side of Ballardvale Street to a point opposite the Service Warehouse property, then at right angles beneath the street to the Westerly side of Ballardvale Street, then parallel to the street on the property of Service Warehouse, Inc., to a point beneath the N. E. Power Co., high tension lines. The route would then follow beneath N. E. Power lines upon their right of way to the intersection with the B&M right of way. The route would then follow on the Easterly edge of the B&M right of way to approximately Station 989+94.97 where it would go Westerly beneath the trackage to the Gillette Company property. At this point the route would continue on the Gillette Company property to the intersection with the Andover trunk line sewer for connection. Total distance of the proposed line is approximately 7500 feet.

We propose a force main from Charles River onto the Gillette Company property to a point, yet to be precisely determined, where the line would become a gravity type. This point is estimated to be approximately 1500 feet from the trunk line intersection.

Property owners concerned have been contacted and all have evidenced willingness to provide easements for this purpose, i.e.,

Parks	N. E. Power Co.
Town of Wilmington	B&M Railroad
Service Warehouse, Inc.	The Gillette Company

We realize we are requesting a privilege and wish to emphasize this proposal would be at no expense to the Town of Andover. In view of the projected expenditures involved, we make this petition only after careful evaluation as we see no alternative or other solution.

We would expect to meet requirements of the Town of Andover and The Greater Lawrence Sewer District. Pertinent data will be provided as required. Our staff and consulting engineers are available for discussion, questioning and detailing of this proposal at your convenience.

All parties concerned are welcome to view and tour our facilities at any time. Such a visit may be of value in formulating your reply.

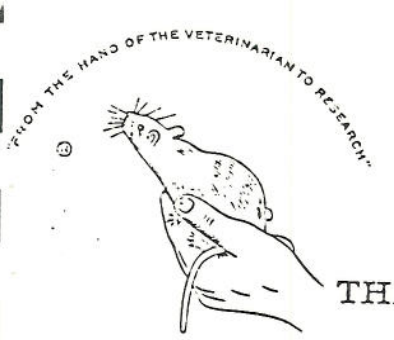
Charles River Breeding Laboratories, Inc., is the foremost supplier of of specialized cancer and other bio-medical research animals as well as being unique in the technical ability to meet other demands of the medical research community. The ability to maintain and increase availability of these animals and services is directly related to our obtaining municipal sewerage access.

As a substantial employer of citizens of Andover and surrounding communities, the management and staff of Charles River sincerely hope you will accept this petition in the spirit in which it is presented and mutually benefit in the attainment of these goals and wish to thank you for your kind cooperation and consideration.

Sincerely yours,
The Charles River Breeding Laboratories, Inc.

Henry L. Foster, D.V.M., President

HLF:er



CORPORATE DIVISIONS:
Charles River France, S.A.-France
Canadian Breeding Laboratories, Ltd.-Canada
Lakeview Hamstar Colony-U.S.A.
Charles River Mouse Farms, Inc.-U.S.A.

THE CHARLES RIVER BREEDING LABORATORIES
INCORPORATED

HENRY L. FOSTER, D.V.M., President

WILMINGTON, MASS. 01887

Area Code 617 · Tel. 658-6000
Cable: CHARIVER-Wilmington

February 17, 1972

Mr. Sterling Morris, Town Manager
Town of Wilmington
Town Hall
Wilmington, Massachusetts 01887

Dear Mr. Morris:

Over twenty years ago The Charles River Breeding Laboratories, Inc., moved its location to Wilmington, Massachusetts, and has regarded itself as a part of the Wilmington community and has enjoyed its relationship with the Wilmington citizenry and town government. In 1968 the company reached a corporate decision that the future expansion of its operations in this country would be based in Wilmington and as a part of that plan acquired 50 acres abutting the property previously occupied.

Charles River now finds itself in a critical position due to the unavailability of municipal sewerage and for the past two years has been attempting to find an answer to the problem. The problem has recently become acute because of the strong position taken by the Department of Public Health of the Commonwealth of Massachusetts. Charles River, in effect, is being required to solve the problem of waste disposal before the end of the year.

A great deal of time, effort and funds have been expended in an attempt to seek a solution. It has been made very clear to us that a solution cannot, for practical reasons, be forthcoming from the Town of Wilmington within the time limits specified by the State Department of Public Health. It does not seem likely that sewerage will be available through the M.D.C. in the foreseeable future nor does it seem likely that sewerage will be possible through the Greater Lawrence Sewer District for any broad segment of the Wilmington community. Such a possibility would involve action by many Communities and probably by the State Legislature. While we appreciate that the Wilmington authorities would like to provide municipal

sewerage, it seems clear that this cannot be done within the necessary time requirements. Recognizing that practicality, we have investigated the possibility of a large sewerage treatment installation. A pilot sewerage plant has been installed, pursuant to the requirements of the State Department of Public Health for the purpose of gathering design criteria for such a plant. We estimate that the cost of the pilot plant will be in the area of $75,000.00. If the studies prove favorable, the State may expect a solution to the problem involving the construction of a large installation which we estimate will cost in the vicinity of half a million dollars. Even if the installation of the large sewerage plant should prove acceptable to the State authorities and should be constructed, Charles River must face up to the reality that such a plant will not support future significant expansion at the Wilmington site.

In light of the tremendous cost involved in solving the problem by the construction of a large sewerage treatment facility, and even more significantly in recognition of the impossibility of future expansion of the Wilmington site, Charles River has searched for other alternatives. The first and most desirable alternative appears to be a tie in with the Greater Lawrence Sewer District through the Town of Andover. If this cannot be arranged for within a fairly short period of time, Charles River will have to face up to the reality of changing its corporate plans and looking for other areas on which to construct facilities for future expansion. It may even be that Charles River will be confronted with the possibility of phasing out its operation at Wilmington should the pilot studies not prove successful.

Surveys of our properties have been made in search of areas for possible future leaching fields and/or filter beds. However, it has been the opinion of all concerned in this search that the terrain, soil and sub soil are such that it is doubtful that such an area with sufficient capacity to meet the anticipated volume of clarified effluent is available.

We have had informal discussions with the Town of Andover on the possibility of a sewerage tie in. We understand that any such requests must be made through the Town of Wilmington and we hereby ask your assistance and cooperation in making such a request to the Town of Andover and that you communicate to the Town of Andover the endorsement by the Town of Wilmington.

We appreciate the desire of the officials of the Town of Wilmington to make sewerage available to more individual and corporate citizens but we suggest to you that an attempt to broaden the proposal described below to cover

sewerage disposal for any other individual or concern would severely jeopardize the possibilities of Charles River's obtaining favorable response from the Town of Andover, and undoubtedly, defer favorable consideration of Charles River's request for a time too late to be of value to Charles River.

We propose to take advantage of the trunk line service of the Town of Andover to the Gillette plant which is located approximately 7500 feet from our Ballardvale Street site. A proposed routing to this point has been made and evaluated. Copies of this routing are enclosed.

We enclose herewith a letter addressed to the Town of Andover which we should appreciate your forwarding to them with your request on our behalf should you find it in order.

Basically we propose to commence at the Charles River Ballardvale Street site with a force main placed on our property, across the Parks property on the Easterly side of Ballardvale Street to a point opposite the Service Warehouse property, then at right angles, beneath the street to the Westerly side of Ballardvale Street, then parallel to the street on the property of Service Warehouse, Inc., to a point beneath the N. E. Power Co., high tension lines. The route would then follow beneath N. E. Power lines upon their right of way to the intersection with the B&M right of way. The route would then follow on the Easterly edge of the B&M right of way to approximately Station 989 +94.97 where it would go Westerly beneath the trackage to the Gillette Company property. At this point the route would continue on the Gillette Company property to the intersection with the Andover trunk line sewer for connection.

This would, of necessity, be a private line upon private property and privately funded. The only participation by the Town of Wilmington would be the necessary permit to cross Ballardvale Street. We were in a similar situation some years ago when the Town was unable to supply sufficient water and water pressure to meet Fire Underwriters requirements. At our own substantial expense, a water reservoir was constructed. If there were a similar satisfactory on site solution to the case in point, we would, of course have implemented that solution.

As a company we are at a crossroad in our operations and growth. There is great pressure upon us for the expansion of our facilities to meet the production demands of medical research. The vastly expanded Cancer research

program supported by large additional Federal appropriations is simply one phase of this increased demand for laboratory animals. The unique laboratory animals supplied by Charles River are an integral and vital part of the National Commitment to find an answer to the scourge of Cancer. Demands upon Charles River to increase the availability of its animals for research will require not only the expansion of its physical facilities and the necessary huge additional capital commitment, but inevitably will require a large increase in the staff presently supporting the Wilmington operation which now numbers about 220.

Charles River is certainly not looking forward to the prospect of expending half a million dollars to obtain municipal sewerage access or to construct a large sewerage facility. Such an investment in corporate financial terms will certainly not be productive. But Charles River must find a way to satisfy its obligations to its stockholders, employees and to the larger community to whom medical research is unquestionably a priority objective.

We earnestly solicit your support and cooperation in this endeavor and hope that you will feel that an industrial citizen who has grown with and taken pride in its association with the Town of Wilmington over the last twenty years is worthy of that support.

We stand prepared to furnish to you at your convenience any additional data and information which you may request.

We shall be grateful for your consideration and cooperation in resolving this crucial dilema.

Sincerely yours,
The Charles River Breeding Laboratories, Inc.

Henry L. Foster, D.V.M., President

HLF:er
Enclosure

TOWN OF WILMINGTON

MASSACHUSETTS 01887

OFFICE OF THE
TOWN MANAGER

AREA CODE 617
658-3311

April 3, 1972

Henry L. Foster, D. V. M., President
Charles River Breeding Laboratories
251 Ballardvale Street
Wilmington, Massachusetts 01887

Dear Dr. Foster:

The Board of Selectmen recognize the problem of the lack of a sanitary sewer to serve Ballardvale Street and have asked me to cooperate with you in finding an adequate solution for your needs.

As a result of your letter of February 17, 1972, the Selectmen at their reorganizational meeting of March 27, 1972, placed this item on the agenda and met with your Special Projects Manager Mr. William J. Riley, Corporation Treasurer Mr. William Keough, and your Consulting Engineer Mr. Donald Martinage. We had present at the meeting Mr. James McDonough, our Consulting Engineer and Vice President of Whitman and Howard, Inc., of Boston.

The consensus of the meeting was to permit the two engineering firms to develop data on possible sanitary sewer flows from the area and Charles River Breeding Laboratories on Ballardvale Street, after which time the Wilmington Board of Selectmen will set up a joint meeting with the Andover Board of Selectmen to discuss the possibility of connecting a sanitary sewer through Andover into the Greater Lawrence Sewer District. At that time, which should be in about thirty days, we will ask that a representative from your firm attend also to participate in the meeting. We will suggest a dinner meeting.

Sincerely yours,

Sterling C. Morris
Town Manager

SCM/rmb

Copies to: Board of Selectmen, Wilmington;
Board of Selectmen, Andover;
Wilmington Water and Sewer Commissioners

"FROM THE HAND OF THE VETERINARIAN TO RESEARCH"

THE CHARLES RIVER BREEDING LABORATORIES
INCORPORATED

HENRY L. FOSTER, D.V.M., President

CORPORATE DIVISIONS:
Charles River France, S.A.-France
Canadian Breeding Laboratories, Ltd.-Canada
Lakeview Hamster Colony-U.S.A.
Charles River Mouse Farms, Inc.-U.S.A.

WILMINGTON, MASS. 01887

Area Code 617 · Tel. 658-6000
Cable: CHARIVER-Wilmington

A . 10 1972

April 7, 1972

Mr. Kenneth A. Tarbell
District Sanitary Engineer
Northeastern Regional Health Office
Tewksbury, Massachusetts 01876

Dear Mr. Tarbell:

In our continuing effort to find an adequate solution to our sewerage disposal problem and concurrently explore all possible avenues open to us, the attached correspondence from the Town of Wilmington may be of interest to your Department.

Should you have any questions concerning these efforts or the attached, please contact us at your earliest convenience.

Sincerely yours,
The Charles River Breeding Labs., Inc.

W. J. Riley
Special Projects Manager

WJR:em
Enclosure

CHARLES RIVER PROFESSIONAL SERVICES
1985–1986 PRICE LIST

Prices effective October 15, 1985.

RODENT SEROLOGICAL TESTS

Agent	Abbreviation	ELISA Catalog No./Price	IFA Catalog No./Price	HAI Catalog No./Price	CF Catalog No./Price
Reovirus Type-3	REO-3	03-320 **$6.50**	03-430 **$6.50**	03-101 **$5.00**	– **$5.00**
Sendai Virus	SEN	03-321	–	03-102	03-201
Minute Virus of Mice	MVM	03-322	03-431	03-103	–
Theiler's Encephalomyelitis	GD-7	03-323	03-432	03-104	–
Pneumonia Virus of Mice	PVM	03-324	03-440	03-105	–
Mouse Hepatitis Virus	MHV	03-326	03-436	–	03-203
Mouse Adenovirus	MAD	03-327	03-437	–	03-204
Ectromelia Virus	ECTRO	03-328	03-443	–	–
Lymphocytic Choriomeningitis Virus	LCMV	03-325	03-439	–	–
Epizootic Diarrhea of Infant Mice	EDIM	03-373	03-433	–	–
Rat Coronavirus Sialodacryoadenitis Virus	RCV SDA	03-329	03-441	–	03-205
Toolan's H-1 Virus	H-1	03-370	03-434	03-109	–
Kilham Rat Virus	KRV	03-371	03-435	03-108	–
Mycoplasma pulmonis	MPUL	03-380	03-481	–	–
Simian Virus-5	SV5	03-372	03-442	03-110	–
Kilham Papovavirus	K	–	–	03-106	03-202
Polyoma Virus	POLY	–	03-438	03-107	–
Mouse Cytomegalovirus	MCMV	03-381	03-490 **$17.00**	–	–
Hantaan Virus	HANT	–	03-491 **$17.00**	–	–
Encephalitozoon cuniculi	ECUN	–	03-492 **$11.00**	–	–

MISCELLANEOUS SEROLOGICAL TESTS

Herpes Virus Simiae (B-Virus)	BV	–	03-493 **$37.00**	–	–
In addition, we offer testing for Lactate dehydrogenase virus. This is an enzymatic assay.					
Lactate dehydrogenase	LDH	–	03-666 **$12.50**	–	–

SEROLOGICAL TESTING PROFILES

	MOUSE TP 03-301	MOUSE AP 03-302	MOUSE AP PLUS 03-001	RAT TP 03-303
PRICE	$32.00	$50.00	$70.00	$28.00
Sendai	X	X	X	X
PVM	X	X	X	X
REO-3	X	X	X	X
MHV	X	X	X	
RCV SDA				X
MVM	X	X	X	
KRV H-1				X
GD-VII	X	X	X	
Ectromelia		X	X	
LCMV		X	X	
MAD		X	X	
EDIM			X	
SV-5				
MCMV			X	
Mycoplasma pulmonis	X	X	X	X
Hantaan				
E. cuniculi			X	
K		X	X	
POD		X	X	

	RAT AP 03-304	RAT AP PLUS 03-002	GUINEA PIG TP 03-305	GUINEA PIG AP 03-003	HAMSTER TP 03-306	HAMSTER AP 03-004
	$41.00	$51.00	$15.25	$23.00	$19.00	$23.00
	X	X	X	X	X	X
	X	X	X	X	X	X
	X	X	X	X	X	X
	X	X				
	X	X				
	X	X				
	X	X		X	X	X
	X	X				
			X	X	X	X
	X	X				
		X				
		X		X		X

SEROLOGICAL TESTING

Sample Requirements	Samples for viral profiles and individual serologies for mice, rats, guinea pigs and hamsters require a minimum of 0.5 ml of serum diluted in PBS Phosphate Buffered Saline, ph 7.3) or normal saline 0.85%, 1 part serum to 4 parts diluent.
Shipment	CRPS upon request, will provide to you at no charge, an addressed shipping container with vials, an accession form and detailed serum collection instructions. It is preferred that samples be shipped by an overnight express service on a cold pack or dry ice. Please contact CRPS regarding collection and shipment of samples for LDH testing.
Reporting Time	Results are reported to the customer by telephone. Typewritten results are mailed out no later than 48 hours after the telephone report. Tests on samples received by Tuesday will be completed by Monday of the following week. Results for samples arriving at CRPS on or after Wednesday will be reported by the following Friday.
Ordering Information	For more information and placing orders please call: 1-617-657-6500.

ANIMAL ORGANS, TISSUES AND GLANDS

Product Description	Rat Catalog No.	Rat Unit Price*	Mouse Catalog No.	Mouse Unit Price*	Guinea Pig Catalog No.	Guinea Pig Unit Price*
Brain	41-310	$22.00	40-110	$22.00	42-510	$25.00
Epididymus	41-320	19.50	40-120	19.50	42-520	22.00
Eye	41-330	11.00	40-130	11.00	42-530	11.00
Heart	41-340	16.50	40-140	16.50	42-540	22.00
Kidney (Whole)	41-350	11.00	40-150	11.00	42-550	20.00
Liver	41-360	16.50	40-160	16.50	42-560	22.00
Lung	41-370	16.50	40-170	16.50	42-570	22.00
Ovary	41-380	16.50	40-180	16.50	42-580	22.00
Pancreas	41-390	16.50	40-190	16.50	42-590	22.00
Pituitary	41-410	19.50	40-210	19.50	42-610	22.00

ANIMAL BLOOD PRODUCTS

Whole Blood

Anticoagulant	Species	Catalog No.	Unit Size	Unit Price
Alsevers	Rat	70-110	20 ml	$38.50
	Mouse	70-111	10 ml	22.00
	Guinea Pig	70-112	20 ml	15.00
	Guinea Pig	70-212	50 ml	35.00
	Hamster	70-113	10 ml	22.00
	Mini-Swine	70-114	50 ml	11.00
	Mini-Swine	70-214	100 ml	16.00
Citrated	Rat	70-220	20 ml	45.00
	Mouse	70-221	10 ml	27.50
	Guinea Pig	70-222	20 ml	17.50
	Guinea Pig	70-322	50 ml	38.00
	Hamster	70-223	10 ml	27.50
	Mini-Swine	70-224	50 ml	12.00
	Mini-Swine	70-324	100 ml	17.00
EDTA	Rat	70-330	20 ml	45.00
	Mouse	70-331	10 ml	27.50
	Guinea Pig	70-332	20 ml	17.50
	Guinea Pig	70-432	50 ml	38.00
	Hamster	70-333	10 ml	27.50
	Mini-Swine	70-334	50 ml	12.00
	Mini-Swine	70-434	100 ml	17.00
	Rhesus Monkey	70-335	10 ml	38.50
Heparin	Rat	70-440	20 ml	48.00
	Mouse	70-441	10 ml	30.00
	Guinea Pig	70-442	20 ml	20.50
	Guinea Pig	70-542	50 ml	41.00
	Hamster	70-443	10 ml	30.00
	Mini-Swine	70-444	50 ml	15.00
	Mini-Swine	70-544	100 ml	20.00

ANIMAL ORGANS, TISSUES AND GLANDS (Continued)

Product Description	Rat Catalog No.	Rat Unit Price*	Mouse Catalog No.	Mouse Unit Price*	Guinea Pig Catalog No.	Guinea Pig Unit Price*
Prostate	41-420	28.00	40-220	28.00	42-620	$28.00
Salivary (parotid)	41-430	16.50	40-230	16.50	42-630	22.00
Salivary (submaxillary)	41-440	16.50	40-240	16.50	42-640	22.00
Spinal Cord	41-450	20.00	40-250	20.00	42-650	28.00
Spleen	41-460	16.50	40-260	16.50	42-660	22.00
Stomach	41-470	8.00	40-270	8.00	42-670	20.00
Testicle	41-480	13.00	40-280	13.00	42-680	20.00
Thyroid	41-490	22.00	40-290	22.00	42-690	22.00
Uterus	41-500	16.50	40-300	16.50	42-700	25.00

*All units include 25 samples per package.

ANIMAL TISSUE SOURCES AND PRODUCT SPECIFICATIONS

Introduction

These tissue products are all obtained from Charles River Laboratories animals maintained in barrier rooms prior to collection of samples.

All samples are collected by experienced prosectors, and quickly frozen at −65°C usually within 30 minutes. This helps to preserve enzyme activity and other related products within the samples.

Packaging

Samples are individually frozen, then bulk packaged in units of 25. They are packed in dry ice and shipped by carrier to arrive on the next business day. Orders of samples sent frozen on dry ice are shipped only on Monday, Tuesday or Wednesday. This is to prevent packages from possibly being held over weekends.

Special Orders

Additional tissue samples can be ordered other than those listed in our catalog.

Ordering Information

For more information and placing orders please call: 1-617-657-6500.

SERUM

Serum Products	Species	Catalog No.	Unit Size	Unit Price
	Rat	50-110	10 ml	$ 27.50
		50-150	50 ml	68.00
		50-100	100 ml	110.00
	Mouse	50-210	10 ml	38.50
		50-250	50 ml	112.00
		50-200	100 ml	198.00
	Guinea Pig	50-310	10 ml	$ 15.00
		50-350	50 ml	55.00
		50-300	100 ml	82.00
		50-355	500 ml	350.00
	Hamster	50-410	10 ml	38.50
		50-450	50 ml	112.00
		50-400	100 ml	200.00
	Mini-Swine	50-550	50 ml	13.00
		50-500	100 ml	17.00
		50-555	500 ml	50.00
	Rhesus Monkey	50-610	10 ml	44.00
		50-650	50 ml	220.00
		50-600	100 ml	385.00
		50-655	500 ml	1600.00

PLASMA

Plasma Products	Species	Catalog No.	Unit Size	Unit Price
	Rat	90-110	10 ml	$ 30.00
		90-150	50 ml	70.00
		90-100	100 ml	112.00
	Mouse	90-210	10 ml	41.00
		90-250	50 ml	114.00
		90-200	100 ml	200.00
	Guinea Pig	90-310	10 ml	16.00
		90-350	50 ml	57.00
		90-300	100 ml	84.00
		90-355	500 ml	360.00

Species	Catalog No.	Unit Size	Unit Price
Hamster	90-410	10 ml	$ 41.00
	90-450	50 ml	114.00
	90-400	100 ml	202.00
Mini-Swine	90-550	50 ml	15.00
	90-500	100 ml	19.00
	90-555	500 ml	52.00
Rhesus Monkey	90-610	10 ml	46.00
	90-650	50 ml	220.00
	90-600	100 ml	385.00
	90-655	500 ml	1605.00

ANIMAL BLOOD PRODUCTS

Introduction

Blood products available are plasma, serum and whole blood, collected in a wide variety of anticoagulants. Whole blood products are shipped with ice packs; plasma or serum products are shipped frozen under dry ice.

All rhesus monkey samples are from our Herpes B-virus antibody negative island-reared colony.

Product Description (whole blood)

The whole blood samples available in this catalog are collected using one of the anticoagulants listed below:

1. Modified Alsevers: This contains dextrose, sodium citrate, citric acid, sodium chloride in distilled water; whole blood is collected 1:1 in modified Alsevers.
2. Sodium Citrate: Contains 0.129M buffered sodium citrate (4.0 mg sodium citrate and 0.523 mg of citric acid per ml of whole blood).
3. EDTA: Ethelene Diamine-Tetro-Acetic acid is added at a concentration of 1.5 mg per ml of whole blood.
4. Heparin: Sodium Heparin is added at a concentration of 10 units per ml of whole blood.

Product Description (serum & plasma)

Plasma samples are routinely collected in sodium citrate, separated by centrifugation and frozen immediately at −65°C until shipment in dry ice. Plasma samples collected in other anticoagulants are available upon request. Contact our laboratory for availability and price.

Ordering Information

For more information and placing orders please call: 1-617-657-6500.

ORDERING INFORMATION

1. Placing your order: Mail and telephone orders are invited. Please confirm telephone orders in writing: mark such orders "Confirming". Our Customer Service Department is open for telephone orders from 8:30 am till 5:00 pm Eastern Standard Time. To expedite your order, please include our five-digit product codes when ordering.
2. Terms of payment: Net 30 days from date of invoice.
3. Shipments: Shipments are made Monday through Wednesday unless otherwise specifically requested. If special packing or handling is requested, the customer will pay the difference between normal packing and handling and special handling charges.

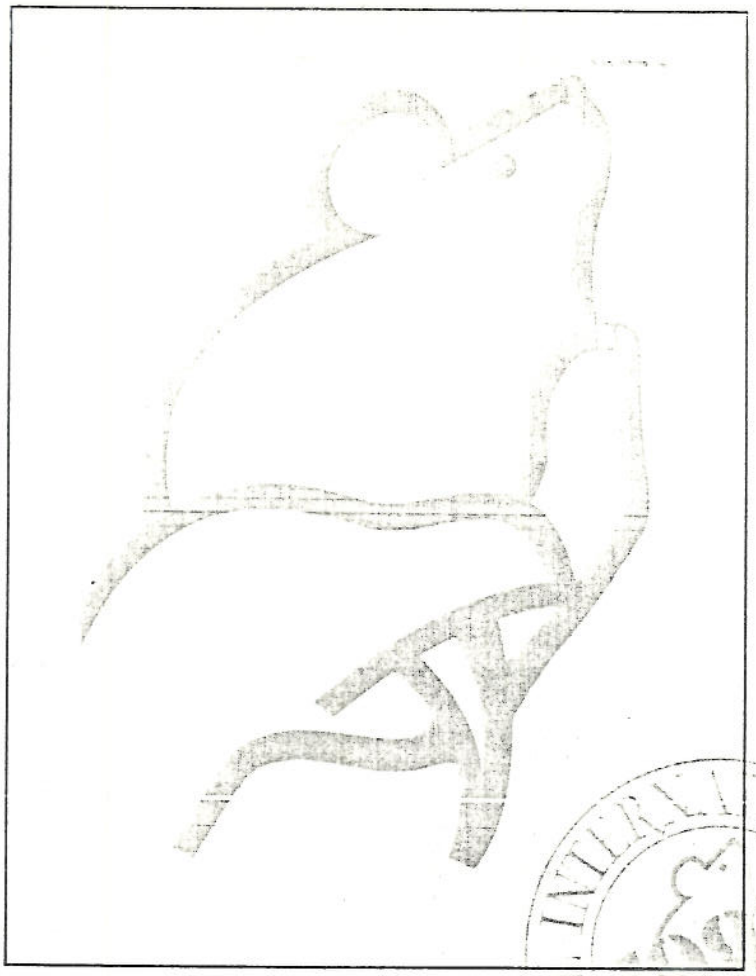
ADDITIONAL ORDERING INFORMATION

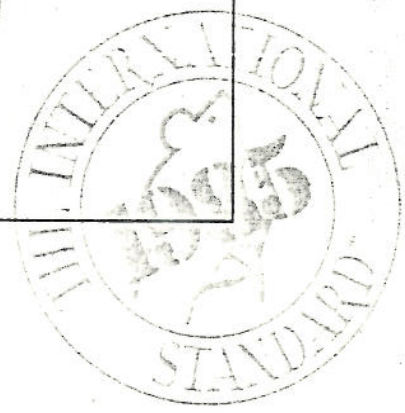
To accommodate customers' needs for prompt shipment, sales are generally made on the basis of telephone orders without written documentation. Our acceptance of your order is expressly made conditional on your consent to the conditions of sale warranty set forth below and our prices have been set accordingly. Any provision of a purchase order or confirmation which you may send that are additional to or conflict with our conditions of sale warranty are expressly rejected and shall not be binding on us. Please consider this before placing your order.

CONDITIONS OF SALE/WARRANTY

If after delivery and inspection of the goods delivered by Charles River, or performance of the services of Charles River, you determine that the products or services do not conform to your specifications and are therefore unacceptable, please notify Charles River immediately. Charles River will, upon request, either replace or issue a credit for rejected laboratory products and will return the fees paid for unacceptable laboratory services.

This shall be the exclusive warranty of Charles River and there are no further warranties or representations, express or implied, including any implied warranty of merchantability or for fitness of purpose. Except as provided above, Charles River shall not be liable for any causes of action or damages, including any special, indirect or consequential damages, whatsoever, arising out of the performance of services or for consequential economic damages or sequential damage to property, including damages arising from acts of negligence on the part of Charles River, its agents or employees. You expressly release and discharge Charles River from all such causes of action or damages.





CHARLES RIVER PRICE LIST

(EFFECTIVE MARCH 1, 1985)

ANIMAL COMPARISONS COBS® VAF/Plus™

BENEFITS	COBS	VAF/Plus™
All animal colonies, caesarean originated	Yes	Yes
Nucleus colonies maintained in germfree facilities	Yes	Yes
Animals reared under barrier conditions	Yes	Yes
Animal bedding sterilized	Yes	Yes
Animal diets pasteurized	Yes	Yes
Routine in house health monitoring	Quarterly	Every 6 wks.
Routine in house genetic monitoring	Yes	Yes
Health and genetic monitoring reports supplied	On request	With every shipment
Professionals available to discuss research results and problems		
Laboratory animal Vets	Yes	Yes
Laboratory animal Pathologists	Yes	Yes
Immunologists	Yes	Yes
Tumor Biologists	Yes	Yes
Genetic Consultants	Yes	Yes
Professional Publications for customers (Tech Bull, CRBS update)	Yes	Yes
Water quality standards for all plants	Yes	Yes
Internal quality assurance teams	Yes	Yes
All animals mycoplasma free	Yes	Yes
All animals free of endo and ecto parasites	Yes	Yes
All animals free of pathogenic bacteria	Yes	Yes
Multiple worldwide supply locations	Yes	Yes
Computerized customer service department	Yes	Yes
Free of antibody to all pathogenic murine viruses	No	Yes
Animals shipped in special "Microsafe" shipper	No	Yes

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ANIMAL COMPARISONS COBS® VAF/Plus™

BENEFITS	COBS	VAF/Plus™
All animal colonies, caesarean originated	Yes	Yes
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Health and genetic monitoring reports supplied	On request	With every shipment
Professionals available to discuss research results and problems		
Laboratory animal Vets	Yes	Yes
Laboratory animal Pathologists	Yes	Yes
Immunologists	Yes	Yes
Tumor Biologists	Yes	Yes
Genetic Consultants	Yes	Yes
Professional Publications for customers (Tech Bull, CRBS update)	Yes	Yes
Water quality standards for all plants	Yes	Yes
Internal quality assurance teams	Yes	Yes
All animals mycoplasma free	Yes	Yes
All animals free of endo and ecto parasites	Yes	Yes
All animals free of pathogenic bacteria	Yes	Yes
Multiple worldwide supply locations	Yes	Yes
Computerized customer service department	Yes	Yes
Free of antibody to all pathogenic murine viruses	No	Yes
Animals shipped in special "Microsafe" shipper	No	Yes

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OUTBRED MICE

Crl:CD®-1(ICR)BR
Swiss
COBS® & VAF/Plus™

Originated in 1959 from caesarean sections on HaM/ICR (Hauschka and Mirand – Roswell Park Memorial Institute – Swiss) mice.

Crl:CF1®BR
Non-Swiss
VAF/Plus™ Only

Originally inbred for over 20 generations by Carworth Farms. Reduced to a single pair in the 21st generation and all CF1 mice in existence are descended from this pair. Caesarean-Derived in 1974 from a representative cross section of the Carworth CF1 colony.

Crl:CFW®(SW)BR
Swiss-Webster
VAF/Plus™ Only

Originated from a colony of Swiss mice that had been maintained by Dr. Leslie Webster at the Rockefeller Institute. Caesarean-Derived in 1974 from a representative cross section of the Carworth CFW colony.

Crl:nu/nuBR
Nude
VAF/Plus™ Only

Received from NIH and Caesarean-Derived in 1978.

Crl:nu/nu(CD®-1)BR
Nude
VAF/Plus™ Only

The Nude gene was transferred to our CD®-1 mouse thru a series of crosses and backcrosses.

INBRED MICE

C3H/HeNCrlBR
VAF/Plus™ Only

DBA/2NCrlBR
C57BL/6NCrlBR
BALB/cAnNCrlBR
COBS® & VAF/Plus™

Pedigreed breeders for these four inbred mouse strains were received from the National Institutes of Health in early 1974. All strains were Caesarean-Derived in 1975.

AKR/NCrlBR
VAF/Plus™ Only

Pedigreed breeders for this strain were received from N.I.H. and Caesarean-Derived in 1982.

HYBRID MICE

B6C3F1/CrlBR
VAF/Plus™ Only

A cross between C57BL6/NCrlBR x C3H/HeNCrlBR

B6D2F1/CrlBR
VAF/Plus™ Only

A cross between C57BL6/NCrlBR x DBA/2NCrlBR

CD2F1/CrlBR
VAF/Plus™ Only

A cross between BALB/cAnNCrlBR x DBA/2NCrlBR

OUTBRED GUINEA PIGS

Crl:(HA)BR
Hartley
COBS® & VAF/Plus™

Original breeders obtained from the Medical Research Council in Millhill, England. Caesarean-Derived in 1969.

OUTBRED HAMSTERS

Lak:LVG(SYR)
Golden Syrian
COBS® Only

Descended from two original colonies acquired in 1949 and 1951. Operated as a closed outbred colony since that time.

INBRED HAMSTERS

MHA/SsLak LSH/SsLak CB/SsLak PD4/Lak COBS® Only	Original pedigreed pairs received from Billingham & Silver at the University of Pennsylvania between 1965 and 1970.
LHC/Lak COBS® Only	Descended from stock originally outbred at Lakeview. This line has been inbred since 1957.

OTHER MODELS

Other animal models available from Charles River. Price and availability on request.

LOU/CN Rats
CB6F1/CrlBR
Strain 2CR Guinea Pig
Hairless Guinea Pig: Crl: IAF(HA)BR
Germfree rats and mice
Primates
Swine:
Hanford (BNW) Miniature Swine
Yucatan Miniature Swine
SPF MacroSwine

WEIGHT in Grams	AGE Approx. (Days)		COBS® Price		VAF/Plus™ Price	
	Male	Female	Male	Female	Male	Female
Up to 50	21	21	3.18	3.18	3.48	3.48
51 – 75	22 – 26	22 – 30	3.78	3.98	4.14	4.35
76 – 100	27 – 30	31 – 35	4.46	4.64	4.88	5.08
101 – 125	31 – 35	36 – 40	5.01	5.14	5.49	5.63
126 – 150	36 – 42	41 – 47	5.38	5.63	5.89	6.16
151 – 175	43 – 46	48 – 54	5.75	6.18	6.29	6.76
176 – 200	47 – 50	55 – 65	6.24	6.60	6.83	7.23
201 – 225	51 – 55	66 – 75	6.73	7.04	7.37	7.70
226 – 250	56 – 60	76 – 84	7.34	7.64	8.03	8.36
251 – 275	61 – 65		7.96		8.71	
276 – 300	66 – 70		8.50		9.30	
301 – 325	71 – 74		9.18		10.05	
326 – 350	75 – 80		10.10		11.05	
351 – 375	81 – 87		10.96		11.99	
376 plus	88 plus		*prices on request*			
Retired breeders			6.36	6.36	6.97	6.97
Littermates 21 days old only			4.97	4.97	5.44	5.44
Lactating rat with litter				26.08		28.57
Timed pregnant				22.63		24.78
Untimed pregnant				20.36		22.30

OUTBRED RATS

Crl: CD®(SD)BR
When ordering, specify CD Rats

WEIGHT in Grams	AGE Approx. (Days)		COBS® Price		VAF/Plus™ Price	
	Male	Female	Male	Female	Male	Female
Up to 50	21	21 – 25	3.18	3.18	3.48	3.48
51 – 75	22 – 30	26 – 30	3.78	3.98	4.14	4.35
76 – 100	31 – 35	31 – 35	4.46	4.64	4.88	5.08
101 – 125	36 – 39	36 – 42	5.01	5.14	5.49	5.63
126 – 150	40 – 43	43 – 48	5.38	5.63	5.89	6.16
151 – 175	44 – 48	49 – 57	5.75	6.18	6.29	6.76
176 – 200	49 – 51	58 –70	6.24	6.60	6.83	7.23
201 – 225	52 – 56	71 – 85	6.73	7.04	7.37	7.70
226 – 250	57 – 61	86 – 98	7.34	7.64	8.03	8.36
251 – 275	62 – 68		7.96		8.71	
276 – 300	69 – 77		8.50		9.30	
301 – 325	78 – 85		9.18		10.05	
326 – 350	86 – 94		10.10		11.05	
351 – 375	95 – 103		10.96		11.99	
376 plus	104 plus		*prices on request*			
Retired breeders			6.36	6.36	6.97	6.97
Littermates 21 days old only			4.97	4.97	5.44	5.44
Lactating rat with litter				26.08		28.57
Timed pregnant				22.63		24.78
Untimed pregnant				20.36		22.30

OUTBRED RATS

Crl: (WI)BR
When ordering, specify Wistar Rats

WEIGHT in Grams	AGE Approx. (Days)		COBS® Price		VAF/Plus™ Price	
	Male	Female	Male	Female	Male	Female
Up to 50	21 – 24	21 – 24	3.34	3.34	3.65	3.65
51 – 75	25 – 29	25 – 30	3.98	4.18	4.35	4.57
76 – 100	30 – 33	31 – 34	4.69	4.88	5.13	5.34
101 – 125	34 – 37	35 – 40	5.26	5.38	5.75	5.89
126 – 150	38 – 41	41 – 48	5.64	5.90	6.17	6.46
151 – 175	42 – 45	49 – 55	6.03	6.48	6.60	7.09
176 – 200	46 – 49	56 – 70	6.54	6.92	7.16	7.57
201 – 225	50 – 53	71 – 90	7.06	7.38	7.73	8.07
226 – 250	54 – 58	91 – 107	7.70	8.02	8.42	8.78
251 – 275	59 – 66		8.34		9.13	
276 – 300	67 – 76		8.93		9.77	
301 – 325	77 – 88		9.62		10.53	
326 – 350	89 – 101		10.59		11.59	
351 – 375	102 – 117		11.49		12.57	
376 plus	118 plus		*prices on request*			
Retired breeders			6.48	6.48	7.10	7.10
Littermates 21 days old only			5.06	5.06	5.54	5.54
Lactating rat with litter				27.78		30.43
Timed pregnant				24.09		26.38
Untimed pregnant				21.29		23.32

OUTBRED RATS

Crl: (LE)BR
When ordering, specify Long-Evans Rats

WEIGHT in Grams	AGE Approx. (Days)		COBS® Price	
	Male	Female	Male	Female
Up to 50	21	21	3.70	3.70
51 – 75	22 – 26	22 – 30	4.41	4.63
76 – 100	27 – 30	31 – 35	5.20	5.42
101 – 125	31 – 35	36 – 40	5.84	5.98
126 – 150	36 – 42	41 – 47	6.28	6.55
151 – 175	43 – 46	48 – 54	6.69	7.20
176 – 200	47 – 50	55 – 65	7.26	7.70
201 – 225	51 – 55	66 – 75	7.83	8.19
226 – 250	56 – 60	76 – 84	8.54	8.90
251 – 275	61 – 65		9.26	
276 – 300	66 – 70		9.90	
301 – 325	71 – 74		10.68	
326 – 350	75 – 80		11.76	
351 – 375	81 – 87		12.74	
376 plus	88 plus		*prices on request*	
Retired breeders			7.07	7.07
Littermates 21 days old only			5.52	5.52
Lactating rat with litter				30.30
Timed pregnant				26.27
Untimed pregnant				23.24

OUTBRED RATS

Crl: CD®H(SD)BR
When ordering, specify Holtzman Rats

WEIGHT in Grams	AGE Approx. (Days)		VAF/Plus™ Price	
	Male	Female	Male	Female
30 – 35	21 – 24	21 – 27	5.59	5.59
36 – 50	25 – 28	28 – 32	5.81	6.19
51 – 75	29 – 35	33 – 39	6.21	6.83
76 – 100	36 – 42	40 – 46	6.83	7.98
101 – 125	43 – 49	47 – 58	7.98	8.72
126 – 150	50 – 56	59 – 70	8.72	10.50
151 – 175	57 – 63		9.83	
176 – 200	64 – 69		10.50	
201 plus			*prices on request*	
Retired breeders			8.11	8.11
Littermates 21 days old only			8.25	8.25
Lactating rat with litter		*prices on request*		
Timed pregnant				
Untimed pregnant				

INBRED RATS

CDF®(F-344)/CrlBR
When ordering, specify CDF Rats

WEIGHT in Grams	AGE Approx. (Days)		COBS® Price		VAF/Plus™ Price	
	Male	Female	Male	Female	Male	Female
Up to 50	21 – 23	21 – 25	5.48	5.48	6.00	6.00
51 – 75	24 – 29	26 – 33	6.24	6.24	6.83	6.83
76 – 100	30 – 34	34 – 37	7.04	7.04	7.70	7.70
101 – 125	35 – 37	38 – 42	7.42	7.42	8.12	8.12
126 – 150	38 – 44	43 – 47	8.29	8.29	9.07	9.07
151 – 175	45 – 48	48 – 60	8.98	8.98	9.83	9.83
176 – 200	49 – 55	61 – 70	9.86	9.86	10.79	10.79
201 – 225	56 – 60	71 – 87	10.53	10.79	11.52	11.81
226 – 250	61 – 65	88 – 105	11.34	11.72	12.49	12.83
251 – 275	66 – 70		12.15		13.29	
276 – 300	71 – 78		13.27		14.52	
301 plus			*prices on request*			
Retired breeders			7.40	7.40	8.11	8.11
Littermates 21 days old only			6.79	6.79	7.44	7.44
Lactating rat with litter			*prices on request*			
Timed pregnant						
Untimed pregnant						

INBRED RATS

LEW/CrlBR
When ordering, specify Lewis Rats

AGE (weeks)	WEIGHT Approx. (Grams)		COBS® Price	VAF/Plus™ Price
	Male	Female	Male or Female	Male or Female
4	30 – 50	25 – 40	9.78	10.71
5	51 – 80	41 – 75	11.01	12.05
6	81 – 110	76 – 95	12.24	13.40
7	111 – 140	96 – 115	13.03	14.26
8	141 – 190	116 – 140	14.37	15.73
9	191 – 215	141 – 160	15.91	17.41
10	216 – 230	161 – 165	17.74	19.42
11	231 – 245	166 – 170	18.97	20.76
12	246 – 260	171 – 175	20.80	22.76
13	261 – 275	176 – 180	22.94	25.10
14	276 – 290	181 – 185	24.48	26.78
15	291 – 305	186 – 190	26.92	29.46
Retired breeders			15.76	17.26
Littermates 21 days old only			15.76	17.26
Lactating rat with litter			*prices on request*	
Timed pregnant				
Untimed pregnant				

INBRED RATS

SHR/NCrlBR
When ordering, specify SHR Rats

AGE (weeks)	WEIGHT Approx. (Grams)		COBS® Price	VAF/Plus™ Price
	Male	Female	Male or Female	Male or Female
4	30 – 50	25 – 40	7.96	8.71
5	51 – 80	41 – 75	8.70	9.71
6	81 – 110	76 – 95	10.10	11.05
7	111 – 140	96 – 105	11.01	12.05
8	141 – 160	106 – 125	12.24	13.40
9	161 – 180	126 – 140	14.07	15.39
10	181 – 190	141 – 150	15.91	17.41
11	191 – 200	151 – 165	17.14	18.76
12	201 – 205	166 – 175	19.28	21.10
13	206 – 210	176 – 180	21.12	23.11
14	211 – 215	181 – 185	22.94	25.10
15	216 – 220	186 – 190	25.08	27.45
Retired breeders			15.76	17.26
Littermates 21 days old only			15.76	17.26
Lactating rat with litter			*prices on request*	
Timed pregnant				
Untimed pregnant				

INBRED RATS

WKY/NCrlBR
When ordering, specify WKY Rats

WEIGHT in Grams	AGE Approx. (Days)		COBS Price	
	Male	Female	Male	Female
Up to 50	21	21	6.84	6.84
51 – 75	22 – 30	22 – 35	7.84	8.62
76 – 100	31 – 35	36 – 46	8.62	10.34
101 – 125	36 – 43	47 – 60	9.48	12.12
126 – 150	44 – 49	61 – 90	10.34	13.83
151 – 175	50 – 54		11.69	
176 – 200	55 – 63		12.47	
201 – 225	64 – 72		13.83	
226 – 250	73 – 84		15.54	
251 plus			*prices on request*	
Retired breeders			7.27	7.27
Littermates 21 days old only			7.34	7.34
Lactating rat with litter			*prices on request*	
Timed pregnant				
Untimed pregnant				

NBRED RATS

BN/CrlBR
When ordering, specify BN Rats

WEIGHT in Grams	AGE Approx. (Days)		VAF/Plus™ QUANTITY				
	Males	Females	2500+	1000-2499	500-999	100-499	Less than 100
Up to 12	21	21 – 22	.96	1.06	1.13	1.17	1.22
13 – 15	22 – 24	23 – 25	.97	1.07	1.18	1.22	1.28
16 – 18	25 – 26	26 – 28	.97	1.08	1.20	1.24	1.31
19 – 21	27 – 29	29 – 33	.98	1.09	1.27	1.32	1.39
22 – 24	30 – 32	34 – 41	.98	1.09	1.30	1.35	1.41
24 plus	Add per week		.24	.24	.24	.24	.24
Retired breeders	1.33	1.33					
Littermates – 21 days old only		1.67					
Lactating mouse with litter		16.45					
Timed pregnant		8.95					
Untimed pregnant		6.28					

OUTBRED MICE

Crl: CD®1 (ICR)BR
When ordering, specify CD®1 Mice

WEIGHT in Grams	AGE Approx. (Days)		QUANTITY			
	Males	Females	1000+	500-999	100-499	Less than 100
Up to 12	21	21 – 22	.86	.93	.95	1.00
13 – 15	22 – 24	23 – 25	.87	.96	1.00	1.04
16 – 18	25 – 26	26 – 28	.88	.98	1.02	1.07
19 – 21	27 – 29	29 – 33	.89	1.04	1.08	1.13
22 – 24	30 – 32	34 – 41	.89	1.06	1.11	1.15
24 plus	Add per week		.20	.20	.20	.20
Retired breeders	1.22	1.22				
Littermates – 21 days old only		1.52				
Lactating mouse with litter		15.02				
Timed pregnant		8.17				
Untimed pregnant		5.73				

OUTBRED MICE COBS®

Crl: CD®1 (ICR)BR
When ordering, specify CD®1 Mice

WEIGHT in Grams	AGE Approx. (Days)		VAF/Plus™ QUANTITY				
	Males	Females	2500+	1000-2499	500-999	100-499	Less than 100
Up to 12	21 – 22	21 – 24	.96	1.06	1.13	1.17	1.22
13 – 15	23 – 25	25 – 30	.97	1.07	1.18	1.22	1.28
16 – 18	26 – 28	31 – 36	.97	1.08	1.20	1.24	1.31
19 – 21	29 – 34	37 – 40	.98	1.09	1.27	1.32	1.39
22 – 24	35 – 39	41 – 48	.98	1.09	1.30	1.35	1.41
24 plus	Add per week		.24	.24	.24	.24	.24
Retired breeders	1.33	1.33					
Littermates – 21 days old only		1.67					
Lactating mouse with litter		16.45					
Timed pregnant		8.95					
Untimed pregnant		6.28					

OUTBRED MICE

Crl: CF1®BR
When ordering, specify CF1® Mice

WEIGHT in Grams	AGE Approx. (Days)		COBS Price		VAF/Plus™ Price	
	Male	Female	Male	Female	Male	Female
Up to 12	21	21	4.85	5.15	5.31	5.64
13 – 14	22 – 26	22 – 28	5.15	5.45	5.64	5.97
15 – 16	27 – 35	29 – 35	5.45	5.76	5.97	6.31
17 – 18	36 – 40	36 – 42	5.76	6.07	6.31	6.65
19 – 20	41 – 48	43 – 50	6.07	6.36	6.65	6.97
20 plus add/gram	49 plus	51 plus	.37	.37	.40	.40
Littermates 21 days old only			6.18	6.18	6.77	6.77
Retired breeders			4.24	4.24	4.65	4.65
Lactating mouse with litter			*prices on request*			
Untimed pregnant						

INBRED MICE

DBA/2NCrlBR
When ordering, specify
DBA/2 Mice

WEIGHT in Grams	AGE Approx. (Days)		COBS® Price		VAF/Plus™ Price	
	Male	Female	Male	Female	Male	Female
Up to 12	21	21	4.14	4.48	4.53	4.91
13 – 14	22 – 26	22 – 28	4.48	4.82	4.91	5.28
15 – 16	27 – 35	29 – 37	4.82	5.16	5.28	5.65
17 – 18	36 – 40	38 – 56	5.16	5.50	5.65	6.03
19 – 20	41 – 47	57 – 63	5.50	5.84	6.03	6.39
20 plus add/gram	48 plus	64 plus	.37	.37	.40	.40
Littermates 21 days old only			6.07	6.07	6.65	6.65
Retired breeders			3.94	3.94	4.31	4.31
Lactating mouse with litter			*prices on request*			
Untimed pregnant						

INBRED MICE

C57BL/6NcrlBR
When ordering, specify
C57BL/6 Mice

WEIGHT in Grams	AGE Approx. (Days)		COBS® Price		VAF/Plus™ Price	
	Male	Female	Male	Female	Male	Female
Up to 12	21	21	3.86	4.16	4.23	4.55
13 – 14	22 – 26	22 – 28	4.16	4.46	4.55	4.89
15 – 16	27 – 35	29 – 35	4.46	4.77	4.89	5.22
17 – 18	36 – 40	36 – 42	4.77	5.05	5.22	5.53
19 – 20	41 – 48	43 – 50	5.05	5.48	5.53	6.00
20 plus add/gram	49 plus	51 plus	.36	.36	.39	.39
Littermates 21 days old only			5.83	5.83	6.38	6.38
Retired breeders			3.57	3.57	3.91	3.91
Lactating mouse with litter			*prices on request*			
Untimed pregnant						

INBRED MICE

BALB/cAnNCrlBR
When ordering, specify
BALB/c Mice

WEIGHT in Grams	AGE Approx. (Days)		VAF/Plus™ QUANTITY			
	Males	Females	1000+	500-999	100-499	Less than 100
Up to 12	21 – 24	21 – 25	1.19	1.27	1.31	1.38
13 – 15	25 – 28	26 – 32	1.22	1.31	1.36	1.42
16 – 18	29 – 34	33 – 37	1.24	1.34	1.39	1.44
19 – 21	35 – 37	38 – 45	1.25	1.36	1.41	1.46
22 – 24	38 – 40	46 – 55	1.27	1.39	1.43	1.49
24 plus	Add per week		.28	.28	.28	.28
Retired breeders	1.47	1.47				
Littermates – 21 days old only		1.79				
Lactating mouse with litter		18.54				
Timed pregnant		9.59				
Untimed pregnant		7.10				

OUTBRED MICE

Crl: CFW®(SW)BR
When ordering, specify CFW® Mice

	VAF/Plus™ Price
Homozygous Nu/Nu 28 – 35 days old, either sex	15.68
Heterozygous Nu plus male 28 – 35 days old Nu plus female 28 – 35 days old	4.71 5.89
36 days and older – Add per week	4.40

OUTBRED MICE

Outbred Background Nude
When ordering, specify Nu/Nu or Nu plus

	VAF/Plus™ Price
Homozygous Nu/Nu 28 – 35 days old, either sex	15.68
Heterozygous Nu plus male 28 – 35 days old Nu plus female 28 – 35 days old	4.71 5.89
36 days and older – Add per week	4.40

OUTBRED MICE

CD®-1 Background Nude
When ordering, specify CD®-1, Nu/Nu or Nu plus

WEIGHT in Grams	AGE Approx. (Days)		VAF/Plus™ Price	
	Male	Female	Male	Female
Up to 12	21	21	4.51	4.84
13 – 14	22 – 26	22 – 28	4.84	5.18
15 – 16	27 – 32	29 – 34	5.18	5.52
17 – 18	33 – 38	35 – 40	5.52	5.84
19 – 20	39 – 42	41 – 44	5.84	6.31
20 plus add/gram	43 plus	45 plus	.40	.40
Littermates 21 days old only			6.70	6.70
Retired breeders			4.19	4.19
Lactating mouse with litter	*prices on request*			
Untimed pregnant				

INBRED MICE

C3H/HeNCrlBR
When ordering, specify C3H Mice

WEIGHT in Grams	AGE Approx. (Days)		VAF/Plus™ Price	
	Male	Female	Male	Female
Up to 12	21	21	5.24	5.58
13 – 14	22 – 26	22 – 28	5.58	5.91
15 – 16	27 – 35	29 – 35	5.91	6.23
17 – 18	36 – 40	36 – 42	6.23	6.57
19 – 20	41 – 48	43 – 50	6.57	6.90
20 plus add/gram	49 plus	51 plus	.40	.40
Littermates 21 days old only			6.77	6.77
Retired breeders			4.65	4.65
Lactating mouse with litter	*prices on request*			
Untimed pregnant				

INBRED MICE

AKR/NCrlBR
When ordering, specify AKR Mice

WEIGHT in Grams	AGE Approx. (Days)		VAF/Plus™ Price	
	Male	Female	Male	Female
Up to 12	21	21	4.31	4.65
13 – 14	22 – 26	22 – 28	4.65	4.98
15 – 16	27 – 28	29 – 33	4.98	5.31
17 – 18	29 – 31	34 – 40	5.31	5.64
19 – 20	32 – 34	41 – 49	5.64	6.11
20 plus add/gram	35 plus	50 plus	.40	.40
Littermates 21 days old only			6.51	6.51
Lactating mouse with litter	*prices on request*			
Untimed pregnant				

HYBRID MICE

B6C3F1/CrlBR
When ordering, specify B6C3F1 Mice

WEIGHT in Grams	AGE Approx. (Days)		VAF/Plus™ Price	
	Male	Female	Male	Female
Up to 12	21	21	4.06	4.37
13 – 14	22 – 24	22 – 27	4.37	4.68
15 – 16	25 – 27	28 – 34	4.68	4.98
17 – 18	28 – 32	35 – 41	4.98	5.29
19 – 20	33 – 35	42 – 49	5.29	5.73
20 plus add/gram	36 plus	50 plus	.40	.40
Littermates 21 days old only			6.45	6.45
Lactating mouse with litter	*prices on request*			
Untimed pregnant				

HYBRID MICE

B6D2F1/CrlBR
When ordering, specify BDF1 Mice

WEIGHT in Grams	AGE Approx. (Days)		VAF/Plus™ Price	
	Male	Female	Male	Female
Up to 12	21	21	4.06	4.37
13 – 14	22 – 24	22 – 27	4.37	4.68
15 – 16	25 – 27	28 – 34	4.68	4.98
17 – 18	28 – 32	35 – 41	4.98	5.29
19 – 20	33 – 35	42 – 49	5.29	5.73
20 plus add/gram	36 plus	50 plus	.40	.40
Littermates 21 days old only			6.45	6.45
Lactating mouse with litter	*prices on request*			
Untimed pregnant				

HYBRID MICE

CD2F1/CrlBR
When ordering, specify
CDF1 Mice

WEIGHT in Grams	AGE Approx. (Days)		COBS® Price
	Male	Female	Male or Female
Up to 50	21	21	3.03
51 – 60	22 – 30	22 – 30	3.33
61 – 70	31 – 37	31 – 37	3.75
71 – 80	38 – 42	38 – 43	4.24
81 – 90	43 – 49	44 – 56	4.84
91 – 100	50 – 62	57 – 65	5.45
101 – 110	63 – 77	66 – 77	5.75
111 – 120	78 – 85	78 – 94	6.05
121 plus	86 plus	95 plus	Add .77/wk.
Retired breeder			4.82
Timed pregnant			12.71

OUTBRED AND INBRED HAMSTERS

Lak: LVG(SYR)
When ordering, specify
LVG Outbred Hamsters

AGE Weeks	COBS® Male or Female
3 – 5	6.96
6 – 7	9.68
8 – 10	12.10
10 plus	*prices on request*
Retired breeders	9.88
Timed pregnant	31.49

OUTBRED AND INBRED HAMSTERS

MHA/SsLak
LSH/SsLak, CB/SsLak,
PD4/Lak, LHC/Lak
When ordering, specify
Inbred Hamsters

OUTBRED GUINEA PIGS

Crl: (HA)BR
When ordering, specify
Hartley Guinea Pigs

WEIGHT in Grams	AGE Approx. (Days)		COBS Price		VAF/Plus Price	
	Male	Female	Specified Sex	Either Sex	Specified Sex	Either Sex
Up to 200	14	14	18.21	15.02	19.45	16.04
201 – 250	15 – 21	15 – 21	19.96	16.38	21.32	17.49
251 – 300	22 – 25	22 – 29	21.13	17.47	22.56	18.66
301 – 350	26 – 30	30 – 37	22.40	18.56	23.93	19.82
351 – 400	31 – 35	38 – 43	23.58	19.65	25.18	20.99
401 – 450	36 – 42	44 – 50	24.80	20.48	26.49	21.87
451 – 500	43 – 49	51 – 57	26.03	21.57	27.80	23.03
501 – 550	50 – 53	58 – 65	28.30	23.75	30.23	25.37
551 – 600	54 – 56	66 – 73	29.64	24.84	31.66	26.53
601 – 650	57 – 63	74 – 81	30.93	26.20	33.03	27.98
651 plus	64 plus	82 plus	*prices on request*			
Retired breeders			23.76	21.15	26.02	23.16
Untimed pregnant			*prices on request*			

SURGICAL SERVICES COBS® VAF/Plus™

(Add to cost of animal) PROCEDURE	When ordering, specify:	RATS	MICE	COBS® HAMSTERS
Adrenalectomies	Adrex	3.82	6.92	5.72
Castrations	Castrate	3.66	3.99	3.66
Hypophysectomies	Hypox	5.72	6.92	5.72
Ovariectomies	Ovarex	3.80	3.99	4.93
Thymectomies	Thymex	19.24	15.17	22.97
Thyroidectomies	Thyrox	5.72	11.20	–
Caecectomy	Caecectomy	18.18	–	–
Pinealectomy	Pineal	11.17	11.17	11.17
Ganglionectomy	Ganglion	9.11	–	–
Sialectomy	Sialex	5.58	6.70	6.70
Spleenectomy	Spleenex	5.57	6.69	5.57
Vasectomy	Vasex	5.57	5.57	5.57
Nephrectomy	Nephrex	9.71	9.08	9.71

SURCHARGES

The following surcharges will be added where applicable.

5 gram weight range for outbred rats and hamsters ..... add 15%
10 gram weight range for outbred rats ..... add 10%
10 gram weight range for inbred and hybrid rats ..... add 10%
Pre-weaned animals ..... add 15%
Retired breeders specified weight or age ..... add 50%

APPLICABLE BOXING CHARGES

Unfiltered shipping crates $3.30 each.
Filtered shipping crates $5.75 each.
Water bag shippers available at $4.50 each.

SPECIAL SHIPPING PRECAUTIONS

The following animals are shipped in protective filtered shipping crates unless otherwise specified:

- Lactating mouse with litter
- Timed pregnant mice
- Untimed pregnant mice
- Surgically-altered mice
- Surgically-altered hamsters

EXPORT PREPARATION CHARGE

A fee of $25 per shipment is added for preparation of appropriate documentation for export shipments.

BIRTH DATES

Birth dates on all animals are furnished at no charge. When animals are ordered by weight, birth dates are computed from the midpoint of the age range shown on the price list.

PREGNANT ANIMALS

Timed or untimed pregnant animals are available in all species and strains raised by Charles River. Determination of pregnancy is made by:

1. Observation of plug and/or vaginal smear (Plug date is designated as day one).
2. Palpation of obviously gravid female (Rats – 13 days, mice – 13 days, guinea pigs – 45 days, hamsters – 11 days).

GUARANTEES ON PREGNANT ANIMALS

On all animals (except guinea pigs and inbred mice) presumed to be pregnant by observation of a vaginal plug, we guarantee that 50% will be pregnant. Due to the uncertainties of pregnant inbred mice and guinea pigs, no guarantees will be made until animals can be palpated.

On all animals far enough in gestation for pregnancy to be determined by gross observation or palpation, we guarantee 100% pregnancy.

DELIVERIES

All animals delivered by Charles River are transported in specially-designed, climate-controlled vehicles. A comfortable temperature is maintained in these vehicles at all times. Temperatures within the cargo area are registered on gauges located in the cab of the truck.

All air shipments are made from major metropolitan airports located near our multiple-plant locations.

SPECIAL REQUIREMENTS

If you have a requirement for specialized animals or services please contact our Customer Service Department. They will refer you to the appropriate staff member who will be happy to discuss your requirements.

ORDERING INFORMATION

Our computer-based Direct Order Entry System identifies each customer by a 10 digit Customer Service Number. Use of your Customer Service Number will help us in entering your orders accurately and efficiently.

After taking your Customer Service Number, your customer service representative will ask you for your order information in the sequence noted below. Having this information available will eliminate misunderstandings and assist us in serving you efficiently.

1 Purchase Order Number
2 Release Number (if any)
3 Quantity
4 Sex
5 Strain
6 Weight
7 Age
8 Shipping Date
9 Filtered or Non-filtered Crates
10 Caller's Name
11 Telephone Number
12 Special Instructions

Standing orders are encouraged, whenever possible. Standing orders insure availability of animals. Individual shipments on standing orders may be cancelled without jeopardizing future shipping dates.

ADDITIONAL ORDERING INFORMATION

"To accommodate customers' needs for prompt shipment, sales are generally made on the basis of telephone orders without written documentation. Our acceptance of your order is expressly made conditional on your consent to the conditions of sale/warranty set forth below and our prices have been set accordingly. Any provision of a purchase order or confirmation which you may send that are additional to or conflict with our conditions of sale/warranty are expressly rejected and shall not be binding on us. Please consider this before placing your order."

CONDITIONS OF SALE/WARRANTY

Charles River ships laboratory animals in accordance with the specifics of your purchase order. If, after delivery and inspection, you determine that the animals do not conform to your specifications and are therefore unacceptable, please notify the Company immediately. The Company will, upon request, either replace or issue a credit for rejected animals.

This shall be the exclusive written warranty of the Company and there are no further warranties or representations, expressed or implied, including an implied warranty of merchantability. In no event shall Charles River be liable for consequential economic damages or consequential damage to property.

PLEASE DIRECT ALL ORDERS TO:

Charles River Laboratories, Inc.
251 Ballardvale Street
Wilmington, Massachusetts 01887
Telephone: 800-LAB-RATS
Telex: 94-7433: Cable address: CHARIVER
Terms: Net 30 Days, f.o.b.
Shipping Point
Effective March 1, 1985 – Prices subject to change without notice.

CHARLES RIVER PRODUCTION FACILITIES

Charles River Laboratories, Inc.
(Corporate Headquarters)
251 Ballardvale Street
Wilmington, MA 01887

Charles River Kingston
Stone Ridge, NY 12484

Charles River Portage
Portage, MI 49081

Charles River Raleigh
Raleigh, NC 27620

Charles River Lakeview
Newfield, NJ 08344

Charles River Key Lois, Inc.
Summerland Key, FL 33042

Charles River Research Primates
Port Washington, NY 11050

Charles River Canada
St. Constant
Quebec, Canada